

Students entering Algebra 1 are expected to be able perform the following pre-algebra skills upon entrance into the course **WITHOUT** the use of a **CALCULATOR**:

Evaluate expressions, use the Order of Operations, use the Substitution Property, apply the Distributive Property, and simplify Algebraic Expressions.

Practice for these skills can be found below, followed by the answers. Additional practice and review of these skills can also be found by going to www.classzone.com and completing the following

- 1) SELECT YOUR SUBJECT choose **HIGH SCHOOL MATH**
- 2) SELECT YOUR STATE choose **ILLINIOS**
- 3) FIND YOUR BOOK click **GO**

Choose **Algebra 1 2007**, which will take you to a page where there is additional practice. The skills you are expected to enter the course with can be found in the first 2 chapters of this book. [Help with Math](#), [Practice](#), [Practice](#), [Practice](#), and [Assessments](#) are all categories you may choose for additional practice from Chapter 1 and Chapter 2.

Pre-Algebra Practice

Be prepared to show your work for these type of problems. NO Calculators allowed.

Evaluate the expression.

- | | | |
|---------------------|---------------------|--------------------|
| 1. $-13+7$ | 2. $15-(-3)$ | 3. $10(-9)$ |
| 4. $-25 \div 5$ | 5. $-5-(-6)$ | 6. $-12(-3)$ |
| 7. $-7+(-9)$ | 8. $\frac{-27}{-9}$ | 9. $-18+6$ |
| 10. $-18+(-6)$ | 11. $-11(7)$ | 12. $-32 \div -2$ |
| 13. $-36+15-5$ | 14. $-2(5)(-3)$ | 15. $(-1)(-2)(-3)$ |
| 16. $-1.4+5.8$ | 17. $-9-(-12)$ | 18. $-3-5-7$ |
| 19. $\frac{-60}{6}$ | 20. $8+(-8)$ | 21. $-13+12$ |

Evaluate the expression when $x = 3$ and $y = -4$.

- | | | |
|-----------------|------------------|--------------------|
| 22. $y - x$ | 23. $x - y$ | 24. $y - x + 3$ |
| 25. $y - 8 - x$ | 26. $x - 4 - y$ | 27. $-y + 12 + x$ |
| 28. $x + y - 6$ | 29. $10 - x - y$ | 30. $x + 4 - y$ |
| 31. $5 - x - y$ | 32. $6 - x + y$ | 33. $y + 4 - (-x)$ |

Evaluate the expression.

- | | | |
|-------------------------------|--------------------------|-----------------------------------|
| 34. $16 \div 8 \bullet 5$ | 35. $7^2 - 24 \div 3$ | 36. $5 + 12 \div 3$ |
| 37. $18 \div 6 + 4 \bullet 3$ | 38. $13 - 15 \div 5 + 9$ | 39. $\frac{2}{3} \bullet 3^2 - 5$ |
| 40. $8(6 - 2) + 4$ | 41. $28 - 3(4 + 5)$ | 42. $4 \bullet 5 - 6 \div 3$ |
| 43. $11 + 15 \div 3$ | 44. $(10 + 12) \div 2$ | 45. $2 \bullet 3 + 12 \div 4$ |

Evaluate the expression using the given value.

46. $6x + 3$ when $x = -2$ 47. $5 + 2m^2$ when $m = 3$ 48. $3y^2 - 2$ when $y = -1$
49. $40 - \frac{32}{r}$ when $r = -4$ 50. $3x - 2 + x$ when $x = -5$ 51. $x^2 \div 3 - 12$ when $x = 9$

Use the distributive property to write an equivalent expression.

52. $5(x + 11)$ 53. $3(5x - 12)$ 54. $-4(x + 8)$
55. $(2x - 7)(-10)$ 56. $2(5 - x)$ 57. $-4(2 - 3x)$

Simplify the expression.

58. $2x + 5 + x + 1$ 59. $18 + 2y - 1 + 3y$ 60. $21 - 8x - 4 + 9x$
61. $2x^2 - 3 + 5x^2 + 10$ 62. $-3x + 5y - 6 - 2x - y$ 63. $5x + 6 - 2 - 5x - 4$

Simplify the expression.

64. $7(x - 1) - 5$ 65. $3x + 5(x - 4)$ 66. $8x + 3(2x - 1)$
67. $-2(x + 4) - 3$ 68. $11x - (x + 7)$ 69. $9 - 2(x - 4)$
70. $7x - 3(4 - 2x)$ 71. $2x - (-5x - 3)$ 72. $3(5x - 1) + 7$
73. $3x + 5(x - 4)$ 74. $18 - 7(3 - x)$ 75. $14x - 5(3 - 2x)$
76. $10x - 3(2x + 8)$ 77. $(4x - 1)(-2) + 15x$ 78. $(6 - 5x)(-3) - 12x$
79. $20 - (8 - x)$ 80. $5x - 2(3x + 6) + 12$ 81. $7 + 4(-5x - 3) - 12x$

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ANSWER KEY!

1. -6 2. 18 3. -90 4. -5 5. 1 6. 36 7. -16 8. 3 9. -12 10. -24 11. -77 12. 16
13. -26 14. 30 15. -6 16. 4.4 17. 3 18. -15 19. -10
20. 0 21. -1 22. -7 23. 7 24. -4 25. -15 26. -5
27. 17 28. -7 29. -9 30. 11 31. -4 32. -1 33. 3
34. 10 35. 41 36. 9 37. 15 38. 19 39. 1 40. 36
41. 1 42. 18 43. 16 44. 11 45. 9 46. -9 47. 23
48. 1 49. 48 50. -22 51. 15 52. $5x + 55$ 53. $15x - 36$ 54. $-4x - 32$
55. $-20x + 70$ 56. $10 - 2x$ 57. $-8 + 12x$ 58. $3x + 6$ 59. $5y + 17$ 60. $x + 17$ 61. $7x^2 + 7$
62. $-7x + 4y - 6$ 63. 0 64. $7x - 12$ 65. $8x - 20$ 66. $14x - 3$ 67. $-2x - 11$ 68. $10x - 7$
69. $-2x + 17$ 70. $13x - 12$ 71. $7x - 3$ 72. $15x + 4$ 73. $8x - 20$ 74. $7x - 3$ 75. $24x - 15$
76. $4x - 24$ 77. $7x + 2$ 78. $3x - 18$ 79. $x + 12$ 80. $-x$ 81. $-32x - 5$